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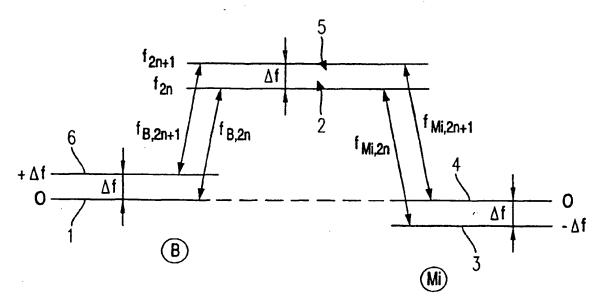
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- (81) Bestimmungsstaaten (national): CN, JP, US.
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[Fortsetzung auf der nächsten Seite]

(54) Title: FREQUENCY SCHEMA FOR DATA TRANSMISSION SYSTEMS

(54) Bezeichnung: FREQUENZSCHEMA FÜR DATENÜBERTRAGUNGSSYSTEME



(57) Abstract: The invention relates to a data transmission system comprising at least two stations (B, Mi) between which data bursts are exchanged via radio. A frequency hop is provided between the first channel mid-frequency (f2n) which is used for the transmission and the second channel mid-frequency (f2n+1) which is used for the feedback transmission, the height of said frequency hop corresponding to the intermediate frequency ( $\Delta f$ ). The local oscillators must not be tuned to new frequencies between the transmission and the feedback transmission.

(57) Zusammenfassung: Die Erfindung betrifft ein Datenübertragungssystem mit mindestens zwei Stationen (B, Mi), zwischen denen Datenbursts über Funk ausgetauscht werden. Zwischen der für die Hinübertragung verwendeten ersten Kanalmittenfrequenz (f2n) und der für die Rückübertragung verwendeten zweiten Kanalmittenfrequenz (f2n+1) ist ein Frequenzsprung vorgesehen, dessen Höhe der Zwischenfrequenz ( $\Delta f$ ) entspricht. Dadurch müssen die lokalen Oszillatoren zwischen der Hinübertragung und der Rückübertragung nicht auf neue Frequenzen eingeschwungen werden.





Veröffentlicht:

- mit internationalem Recherchenbericht

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIPICATION OF SUBJECT MATTER IPC - 7 H04B1/713									
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B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 H04B									
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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)									
PAJ, E	PO-Internal, WPI Data, INSPEC								
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where appropriate, of the rele	vant passacres	Relevant to claim No.						
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X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 183 (E-1348), 9 April 1993 (1993-04-09) & JP 04 334222 A (JAPAN RADIO CO LTD).		1-4, 11-18						
	20 November 1992 (1992-11-20)	(10),							
A	abstract		5,6,8, 10,19,20						
Α	US 5 887 023 A (MABUCHI TETSUO) 23 March 1999 (1999-03-23) column 1, line 14 -column 3, line figures 1,2	1–20							
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Further documents are listed in the continuation of box C.									
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## INTERNATIONAL SEARCH REPORT

information on patent family members

tional Application No FCI/DE 01/04961

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 04334222	A	20-11-1992	JP	2831154 B2	02-12-1998
US 5887023	Α	23-03-1999	JP JP	2812318 B2 9214404 A	22-10-1998 15-08-1997